

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

Claim 1 (currently amended): An etching method for etching an etching target film formed on a substrate placed inside an airtight processing chamber by inducing a processing gas into said processing chamber, wherein;

said processing gas contains N<sub>2</sub> and at least one of C<sub>4</sub>F<sub>8</sub> and CF<sub>4</sub> at least a C<sub>x</sub>F<sub>y</sub> gas and N<sub>2</sub>, but does not contain O<sub>2</sub>; and

said etching target film is constituted of an upper organic film containing Si and a lower formed on an SiO<sub>2</sub> film.

Claim 2 (original): An etching method according to claim 1, wherein:

said organic film containing Si is constituted of SiO<sub>2</sub> containing C and H.

Claim 3 (original): An etching method according to claim 1, wherein:

the dielectric constant of said organic film containing Si is equal to or lower than 3.0.

Claim 4 (original): An etching method according to claim 1, wherein:

said organic film containing Si is an organic polysiloxane film.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
[www.finnegan.com](http://www.finnegan.com)

Claim 5 (original): An etching method according to claim 1, wherein:  
said processing gas further contains Ar.

Claims 6-12 (canceled).

Claim 13 (currently amended): An etching method according to claim 1, wherein;  
said processing gas contains at least C<sub>x</sub>F<sub>y</sub> gas is CF<sub>4</sub> and N<sub>2</sub>.

Claim 14 (previously presented): An etching method according to claim 13,  
wherein; the flow rate ratio of CF<sub>4</sub> and N<sub>2</sub> in said processing gas is essentially set within  
a range of  $1 \leq (N_2 \text{ flow rate} / CF_4 \text{ flow rate}) \leq 4$ .

Claims 15 and 16 (canceled).

---

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
[www.finnegan.com](http://www.finnegan.com)